



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/723,252
				Filing Date	November 26, 2003
				First Named Inventor	Brian C. Demsky, et al.
				Art Unit	2171
Sheet	1	of	8	Examiner Name	Unassigned
				Attorney Docket Number	MIS-00401

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
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FOREIGN PATENT DOCUMENTS						
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		Country Code <sup>2</sup> -Number <sup>3</sup> - Kind Code <sup>4</sup> (if known)				
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Examiner Signature	<i>Byrne P. Ponz</i>	Date Considered	6/25/04
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NON-PATENT LITERATURE DOCUMENTS			
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BDB	B	JONATHAN D. BRIGHT, et al., On-line Error Monitoring for Several Data Structures, AT&T Bell Laboratories, Murray Hill, New Jersey 07974, Computer Science Department, Johns Hopkins University, Baltimore, Maryland 21218, 10 pages.	<input type="checkbox"/>
	C	STEFANO PORCARELLI, et al., Tuning of database audits to improve scheduled maintenance in communication systems, Univ. of Pisa, Computer Engineering Dep., Via Diotisalvi 2, I-56126, Pisa, Italy, Stefano.porcarelli@guest.cnuce.cnr.it; IEI/CNR, Via Moruzzi 1, I-56100, Pisa, Italy {digiandomenico, chohra}@iei.pi.cnr.it; Univ. of Firenze, Dip. Sistemi e Informatica, V. Lombroso 6/17, I-50134, Firenze, Italy, andrea.bondavalli@cnuce.cnr.it, 10 pages.	<input type="checkbox"/>
	D	JIM GRAY, et al., The Recovery Manager of the System R Database Manager, Computing Surveys, vol. 13, No. 2, June 1981, pages 223-242.	<input type="checkbox"/>
	E	P.J. Plauser, Chocolate, March 1994, Embedded Systems Programming 81, 3 pages.	<input type="checkbox"/>
	F	MICHAEL SANNELLA, et al., Multi-way Versus One-way Constraints in User Interfaces: Experience with the DeltaBlue Algorithm; Technical Report 92-07-05a, Dept. of Computer Science and Engineering, University of Washington, May 1993, 38 pages.	<input type="checkbox"/>
	G	CHUNG-CHI JIM LI, et al., Local Concurrent Error Detection and Correction in Data Structures Using Virtual Backpointers, IEEE Transactions on Computers, Vol. 38, No. 11, November 1989, pages 1481-1482.	<input type="checkbox"/>
	H	DAVID GARLAN, et al., Model-based Adaptation for Self-Healing Systems, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA USA, garland@cs.cmu.edu, 6 pages.	<input type="checkbox"/>
	I	JONATHAN D. BRIGHT, et al., Checking the Integrity of Trees, 10 pages.	<input type="checkbox"/>

Examiner Signature	Bryan P. Porzio	Date Considered	6/5/07
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BPP	J	G. HAUGK, et al., Maintenance Capabilities, AT&T Technical Journal, Vol. 64, No. 6, July-August 1985, pages 1385-1416.	<input type="checkbox"/>
	K	SAMIHA MOURAD, et al., On the Reliability of the IBM MVS/XA Operating System, Concise Papers, IEEE Transactions on Software Engineering, Vol. SE-13, No. 10, October 1987, pages 1135-1139.	<input type="checkbox"/>
	L	ROBERT E. STROM, et al., Typestate: A Programming Language Concept for enhancing Software Reliability, IEEE Transactions on Software Engineering, Vol. SE-12, No. 1, January 1986, pages 157-171.	<input type="checkbox"/>
	M	DAVID J. TAYLOR, et al., Principles of Data Structure Error Correction, IEEE Transactions on Computers, Vol. C-31, No. 7, July 1982, pages 602-608.	<input type="checkbox"/>
	N	MANUVIR DAS, et al., ESP: Path-Sensitive Program Verification in Polynomial Time, PLDI'02, June 17-19, 2002, Berlin, Germany, pages 57-68.	<input type="checkbox"/>
	O	DAVID PATTERSON, et al., Recovery Oriented Computing (ROC): Motivation, Definition, Techniques, and Case Studies, Computer Science Technical Report UCSI/CSD-02-1175, U.C. Berkeley, march 15, 2002, 16 pages.	<input type="checkbox"/>
	P	Neeraj K. Gupta, et al., Auditdraw: Generating Audits the FAST Way, pages 1-10.	<input type="checkbox"/>
7	Q	STEFANO CERI, et al., automatic Generation of Production Rules for Integrity Maintenance, ACM Transactions on Database Systems, Vol. 19, No. 3, September 1994, pages 367-422.	<input type="checkbox"/>

Examiner Signature	Bryce Borge	Date Considered	6/15/07
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BDB	R	AARON B. BROWN, et al., Undo for Operators: Building an Undoable E-mail Store, University of California, Berkeley, EECS, Computer Science Division, 387 Soda Hall, #1776, Berkeley, CA, 94720-1776, USA {abrown, patterson}@cs.berkeley.edu, June 2003, 14 pages.	<input type="checkbox"/>	
	S	GEORGE CANDEA, et al., Recursive Restartability: Turning the Reboot Sledgehammer into a Scalpel, Appears in Proceedings of the 8 <sup>th</sup> Workshop on Hot Topics in Operating Systems (HotOS-VIII), May, 2001, 6 pages.	<input type="checkbox"/>	
	T	STEFANO CERI, et al., Deriving Production Rules for Constraint Maintenance, Proc. of 1990 VLDB Conference, pages 566-577.	<input type="checkbox"/>	
	U	DAVID G. CLARKE, et al., Ownership Types for Flexible Alias Protection, Microsoft Research Institute, Macquarie University, Sydney, Australia {clad, potter, kjx}@mri.mq.edu.au, 17 pages.	<input type="checkbox"/>	
	V	SUSAN D. URBAN, et al., Constraint Analysis: A Design process for Specifying Operations on Objects, IEEE Transactions on Knowledge and Data Engineering, Vol. 2, No. 4, December 1990, pages 391-400.	<input type="checkbox"/>	
	W	JAMES C. CORBETT, et al., Bandera: Extracting Finite-state models from java Source Code, University of Hawai'i Department of Information, and Computer Science, Honolulu, HI 96822, Corbett@hawaii.edu, 10 pages.	<input type="checkbox"/>	
	X	MARTIN C. RINARD, Credible Compilation, Laboratory for Computer Science, Massachusetts Institute of Technology, Cambridge, MA 02139, March 10, 1999, 38 pages.	<input type="checkbox"/>	
	Y	JAMES R. LARUS, et al., EEL: Machine-Independent Executable Editing, Computer Sciences Department, University of Wisconsin-Madison, 1210 West Dayton Street, Madison, WI 53706, USA, {larus, schnarr}@cs.wisc.edu., pages 291-300.	<input type="checkbox"/>	

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BPP	Z	MICHAEL d. ERNST, et al., Quickly Detecting Relevant Program Invariants, University of Washington Technical Report UW-CSE-99-11-01, November 15, 1999, 12 pages.	<input type="checkbox"/>
	AA	TIMOTHY GRIFFIN, et al., Generating Update Constraints from PRL5.0 Specifications, AT&T Bell laboratories, July 12, 1996, 10 pages.	<input type="checkbox"/>
	AB	BRIAN DEMSKY, et al., Role-Based Exploration of Object-Oriented Programs, Laboratory for Computer Science, Massachusetts Institute of Technology, Cambridge, MA 02139, <a href="mailto:bdemsky@mit.edu">bdemsky@mit.edu</a> , 12 pages.	<input type="checkbox"/>
	AC	DANIEL JACKSON, Alloy: A Lightweight Object Modelling Notation, Laboratory for Computer Science, Massachusetts Institute of Technology, November 27, 2001, 32 pages.	<input type="checkbox"/>
	AD	GREGOR KICZALES, et al., Aspect-Oriented programming, June 1997, 25 pages.	<input type="checkbox"/>
	AE	Abstract – VIKTOR KUNCAK, et al., Role Analysis, POPL '02, Jan. 16-18, 2002, Portland, OR USA; 16 pages.	<input type="checkbox"/>
	AF	DAVID A. LADD, et al., Two Application Languages in Software Production, AT&T Bell Laboratories, 9 pages.	<input type="checkbox"/>
	AG	CHRISTIAN NENTWICH, et al., consistency Management with Repair Actions, Department of Computer Science, University College London, Gower Street, London WC1E 6BT, UK {c.nentwich, w.emmerich,a.finkelstein}@cs.ucl.ac.uk, 10 pages.	<input type="checkbox"/>

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803	AH	SUSAN S. BRILLIANT, et al., Analysis of Faults I a Multi-Version Software Experiment, Department of Computer Science, University of Virginia, Charlottesville, Virginia 22903, 36 pages.	<input type="checkbox"/>
	AI	CHANDRASEKHAR BOYAPATI, et al., Ownership Types for Safe programming: Preventing Data Races and Deadlocks, OOPSLA '02, November 4-8, 2002, Seattle, Washington, USA, pages 211-230.	<input type="checkbox"/>
	AJ	TIMOTHY L. KAY, et al., Ray Tracing Complex Scenes, Dallas, August 18-22, Volume 20, Number 4, 1986, pages 269-278.	<input type="checkbox"/>
	AK	MARTIN C. RINARD, et al., Credible Compilation with Pointers, Laboratory for computer Science, Massachusetts Institute of Technology, Cambridge, MA 02139, {rinard,marinov}@lcs.mit.edu, 20 pages.	<input type="checkbox"/>
	AL	BEVERLY D. SANFORD, et al., Center/Traconautomation system: Development and Evaluation in the Field, 38 <sup>th</sup> Annual air Traffic Control Association Conference Proceedings. October 1993, pages 238-245.	<input type="checkbox"/>
	AM	EDSGER W. DIJKSTRA, Self-stabilizing Systems in Spite of Distributed Control, Communications of the ACM, November 1974, Volume 17, Number 11, pages 643-644.	<input type="checkbox"/>
	AN	DANIEL JACKSON, et al., Software Analysis: A Roadmap, Future of Software Engineering, Limerick Ireland, 2000, 133-145pages	<input type="checkbox"/>
▽	AO	SETH HALLEM, et al., A System and Language for Building System-Specific, Static Analyses, PLDI'02, June 17-19, 2002, Berlin, Germany, pages 69-82.	<input type="checkbox"/>

Examiner Signature	<i>Bruce P. Bongz</i>	Date Considered	6/15/07
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B993	AP	PETE BROADWELL, et al., Fig A Prototype Tool for Online Verification of Recovery Mechanisms, ICS Shaman Workshop, '02, New York, New York, USA, 7 pages.	<input type="checkbox"/>
	AQ	ALBERT D. ALEXANDROV, et al., Ufo: A Personal Global File System Based on User-Level Extensions to the Operating System, ACM Transactions on Computer Systems, Vol. 16, No. 3, August 1998, pages 207-233.	<input type="checkbox"/>
	AR	JONG-DEOK CHOI, et al., Efficient and Precise Datarace Detection for Multithreaded Object-Oriented Programs, PLDI'02, June 17-19, 2002, Berlin, Germany, pages 258-269	<input type="checkbox"/>
	AS	Abstract – BRIAN DEMSKY, et al., Automatic Data Structure Repair for Self-Healing Systems, First Workshop on Algorithms and Architectures for Self-Managing System, June 2003, 6 pages.	<input type="checkbox"/>
	AT	BRIAN DEMSKY, et al., Static Specification Analysis for Termination of Specification-Based Data Structure Repair, The 14 <sup>th</sup> IEEE International Symposium of Software Reliability Engineering, Nov. 2003, 14 pages.	<input type="checkbox"/>
	AU	ARTIN RINARD, et al., Acceptability-Oriented Computing, OOPSLA '03, October 26-30, 2003, 19 pages.	<input type="checkbox"/>
	AV	Abstract – BRIAN DEMSKY, et al., Automatic Detection and Repair of Errors in Data Structures, OOPSLA '03, October 26-30, 2003, Anaheim, California, USA, 18 pages.	<input type="checkbox"/>
✓	AW	Abstract – BRIAN DEMSKY, et al., Automatic Detection and Repair of Errors in Data Structures, MIT LCS Technical Repair 875, December 2002, 10 pages.	<input type="checkbox"/>

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BBB	AX	MARTIN RINARD, et al., Automatic Detection and Repair of Errors in Data Structures, NDIST Workshop, December 10, 2002, 38 pages.	<input type="checkbox"/>
BBB	AY	MARTIN RINARD, et al., Automatic Detection and Repair of Errors in Data Structures, National University of Singapore, Presentation, December 23, 2002, 40 pages.	<input type="checkbox"/>
BBB	AZ	MARTIN RINARD, et al., Automatic Detection and Repair of Errors in Data Structures, Self Managing Systems Workshop, June 11, 2003, 47 pages.	<input type="checkbox"/>
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Examiner Signature	<i>Bryce Boyz</i>	Date Considered	6/25/07
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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